Martin M Matzuk

List of Publications by Year
in descending order

287 papers	34,886 citations	3515 90 h-index	3815 178 g-index
292 all docs	292 docs citations	292 times ranked	28004 citing authors

#	Article	IF	Citations
1	Growth differentiation factor-9 is required during early ovarian folliculogenesis. Nature, 1996, 383, 531-535.	13.7	1,417
2	Follicle stimulating hormone is required for ovarian follicle maturation but not male fertility. Nature Genetics, 1997, 15, 201-204.	9.4	1,209
3	Social amnesia in mice lacking the oxytocin gene. Nature Genetics, 2000, 25, 284-288.	9.4	999
4	Î±-Inhibin is a tumour-suppressor gene with gonadal specificity in mice. Nature, 1992, 360, 313-319.	13.7	905
5	Continuous Fatty Acid Oxidation and Reduced Fat Storage in Mice Lacking Acetyl-CoA Carboxylase 2. Science, 2001, 291, 2613-2616.	6.0	801
6	The biology of infertility: research advances and clinical challenges. Nature Medicine, 2008, 14, 1197-1213.	15.2	797
7	Intercellular Communication in the Mammalian Ovary: Oocytes Carry the Conversation. Science, 2002, 296, 2178-2180.	6.0	790
8	Synergistic Roles of Bone Morphogenetic Protein 15 and Growth Differentiation Factor 9 in Ovarian Function. Molecular Endocrinology, 2001, 15, 854-866.	3.7	688
9	Pervasive social deficits, but normal parturition, in oxytocin receptor-deficient mice. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16096-16101.	3.3	679
10	Math1 is essential for genesis of cerebellar granule neurons. Nature, 1997, 390, 169-172.	13.7	636
11	Anti-MuÌˆllerian Hormone Attenuates the Effects of FSH on Follicle Development in the Mouse Ovary. Endocrinology, 2001, 142, 4891-4899.	1.4	616
12	Different phenotypes for mice deficient in either activins or activin receptor type II. Nature, 1995, 374, 356-360.	13.7	553
13	Functional analysis of activins during mammalian development. Nature, 1995, 374, 354-356.	13.7	551
14	Paracrine Actions Of Growth Differentiation Factor-9 in the Mammalian Ovary. Molecular Endocrinology, 1999, 13, 1035-1048.	3.7	551
15	Multiple defects and perinatal death in mice deficient in follistatin. Nature, 1995, 374, 360-363.	13.7	545
16	NOBOX Deficiency Disrupts Early Folliculogenesis and Oocyte-Specific Gene Expression. Science, 2004, 305, 1157-1159.	6.0	458
17	Regulation of muscle growth by multiple ligands signaling through activin type II receptors. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18117-18122.	3.3	447
18	The Bone Morphogenetic Protein 15 Gene Is X-Linked and Expressed in Oocytes. Molecular Endocrinology, 1998, 12, 1809-1817.	3.7	414

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19	Cardiac defects and altered ryanodine receptor function in mice lacking FKBP12. Nature, 1998, 391, 489-492.	13.7	410
20	Molecular Characterization of the Follicle Defects in the Growth Differentiation Factor 9-Deficient Ovary. Molecular Endocrinology, 1999, 13, 1018-1034.	3.7	391
21	Genetic dissection of mammalian fertility pathways. Nature Cell Biology, 2002, 4, S33-S40.	4.6	387
22	Zygote arrest 1 (Zar1) is a novel maternal-effect gene critical for the oocyte-to-embryo transition. Nature Genetics, 2003, 33, 187-191.	9.4	385
23	Disruption of Gastrulation and Heparan Sulfate Biosynthesis in EXT1-Deficient Mice. Developmental Biology, 2000, 224, 299-311.	0.9	370
24	Cyclin A1 is required for meiosis in the male mouse. Nature Genetics, 1998, 20, 377-380.	9.4	355
25	Small-Molecule Inhibition of BRDT for Male Contraception. Cell, 2012, 150, 673-684.	13.5	353
26	Knockout of Pentraxin 3, a Downstream Target of Growth Differentiation Factor-9, Causes Female Subfertility. Molecular Endocrinology, 2002, 16, 1154-1167.	3.7	345
27	Roles of NPM2 in Chromatin and Nucleolar Organization in Oocytes and Embryos. Science, 2003, 300, 633-636.	6.0	330
28	High-grade serous ovarian cancer arises from fallopian tube in a mouse model. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3921-3926.	3.3	327
29	Infant Vocalization, Adult Aggression, and Fear Behavior of an Oxytocin Null Mutant Mouse. Hormones and Behavior, 2000, 37, 145-155.	1.0	322
30	Synergistic roles of BMP15 and GDF9 in the development and function of the oocyteâ€"cumulus cell complex in mice: genetic evidence for an oocyteâ€"granulosa cell regulatory loop. Developmental Biology, 2004, 276, 64-73.	0.9	310
31	Characterization of Oocyte and Follicle Development in Growth Differentiation Factor-9-Deficient Mice. Developmental Biology, 1998, 204, 373-384.	0.9	293
32	Targeted disruption of luteinizing hormone Â-subunit leads to hypogonadism, defects in gonadal steroidogenesis, and infertility. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17294-17299.	3.3	284
33	Oocyte-expressed TGF-Î² superfamily members in female fertility. Molecular and Cellular Endocrinology, 2000, 159, 1-5.	1.6	257
34	Growth differentiation factor 9:bone morphogenetic protein 15 heterodimers are potent regulators of ovarian functions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E776-85.	3.3	251
35	Oogenesis requires germ cell-specific transcriptional regulators Sohlh1 and Lhx8. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8090-8095.	3.3	248
36	Deletion of Dicer in Somatic Cells of the Female Reproductive Tract Causes Sterility. Molecular Endocrinology, 2008, 22, 2336-2352.	3.7	238

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37	Molecular Profiling Uncovers a p53-Associated Role for MicroRNA-31 in Inhibiting the Proliferation of Serous Ovarian Carcinomas and Other Cancers. Cancer Research, 2010, 70, 1906-1915.	0.4	238
38	TEX14 is essential for intercellular bridges and fertility in male mice. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4982-4987.	3.3	237
39	Regulation of Muscle Mass by Follistatin and Activins. Molecular Endocrinology, 2010, 24, 1998-2008.	3.7	234
40	A Link between mir-100 and FRAP1/mTOR in Clear Cell Ovarian Cancer. Molecular Endocrinology, 2010, 24, 447-463.	3.7	225
41	MLL2 Is Required in Oocytes for Bulk Histone 3 Lysine 4 Trimethylation and Transcriptional Silencing. PLoS Biology, 2010, 8, e1000453.	2.6	220
42	Functional MicroRNA Involved in Endometriosis. Molecular Endocrinology, 2011, 25, 821-832.	3.7	220
43	Mutant mice lacking acetyl-CoA carboxylase 1 are embryonically lethal. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12011-12016.	3.3	219
44	Insulin-Like Growth Factor I Regulates Gonadotropin Responsiveness in the Murine Ovary. Molecular Endocrinology, 1997, 11, 1924-1933.	3.7	217
45	GDF11 Controls the Timing of Progenitor Cell Competence in Developing Retina. Science, 2005, 308, 1927-1930.	6.0	208
46	Fatty acid synthesis is essential in embryonic development: Fatty acid synthase null mutants and most of the heterozygotes die in utero. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6358-6363.	3.3	204
47	Mice Lacking Ataxin-1 Display Learning Deficits and Decreased Hippocampal Paired-Pulse Facilitation. Journal of Neuroscience, 1998, 18, 5508-5516.	1.7	197
48	Loss of Zona Pellucida Binding Proteins in the Acrosomal Matrix Disrupts Acrosome Biogenesis and Sperm Morphogenesis. Molecular and Cellular Biology, 2007, 27, 6794-6805.	1.1	196
49	Major chromatin remodeling in the germinal vesicle (GV) of mammalian oocytes is dispensable for global transcriptional silencing but required for centromeric heterochromatin function. Developmental Biology, 2004, 275, 447-458.	0.9	194
50	Germ Cell Intercellular Bridges. Cold Spring Harbor Perspectives in Biology, 2011, 3, a005850-a005850.	2.3	192
51	Smad5 is required for mouse primordial germ cell development. Mechanisms of Development, 2001, 104, 61-67.	1.7	191
52	Granulosa Cell-Specific Inactivation of Follistatin Causes Female Fertility Defects. Molecular Endocrinology, 2004, 18, 953-967.	3.7	191
53	Overexpression of Mouse Follistatin Causes Reproductive Defects in Transgenic Mice. Molecular Endocrinology, 1998, 12, 96-106.	3.7	190
54	Conditional Deletion of <i>Smad1</i> and <i>Smad5</i> in Somatic Cells of Male and Female Gonads Leads to Metastatic Tumor Development in Mice. Molecular and Cellular Biology, 2008, 28, 248-257.	1.1	189

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55	Insertion of Inhbb into the Inhba locus rescues the Inhba-null phenotype and reveals new activin functions. Nature Genetics, 2000, 25, 453-457.	9.4	185
56	Follistatin Regulates Enamel Patterning in Mouse Incisors by Asymmetrically Inhibiting BMP Signaling and Ameloblast Differentiation. Developmental Cell, 2004, 7, 719-730.	3.1	179
57	Transgenic Models to Study Gonadotropin Function: The Role of Follicle-Stimulating Hormone in Gonadal Growth and Tumorigenesis. Molecular Endocrinology, 1999, 13, 851-865.	3.7	169
58	Redundant Roles of SMAD2 and SMAD3 in Ovarian Granulosa Cells In Vivo. Molecular and Cellular Biology, 2008, 28, 7001-7011.	1.1	163
59	Bidirectional communication between oocytes and ovarian follicular somatic cells is required for meiotic arrest of mammalian oocytes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3723-9.	3.3	163
60	HILS1 is a spermatid-specific linker histone H1-like protein implicated in chromatin remodeling during mammalian spermiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10546-10551.	3.3	161
61	Premature Luteinization and Cumulus Cell Defects in Ovarian-SpecificSmad4Knockout Mice. Molecular Endocrinology, 2006, 20, 1406-1422.	3.7	159
62	Lineage specification of ovarian theca cells requires multicellular interactions via oocyte and granulosa cells. Nature Communications, 2015, 6, 6934.	5.8	157
63	Role of satellite cells versus myofibers in muscle hypertrophy induced by inhibition of the myostatin/activin signaling pathway. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2353-60.	3.3	156
64	GASZ Is Essential for Male Meiosis and Suppression of Retrotransposon Expression in the Male Germline. PLoS Genetics, 2009, 5, e1000635.	1.5	151
65	Absence of the DNA-/RNA-binding protein MSY2 results in male and female infertility. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5755-5760.	3.3	144
66	Nobox is a homeobox-encoding gene preferentially expressed in primordial and growing oocytes. Mechanisms of Development, 2002, 111, 137-141.	1.7	143
67	A bioinformatics tool for linking gene expression profiling results with public databases of microRNA target predictions. Rna, 2008, 14, 2290-2296.	1.6	141
68	Smad5 Is Essential for Leftâ€"Right Asymmetry in Mice. Developmental Biology, 2000, 219, 71-78.	0.9	138
69	Genome engineering uncovers 54 evolutionarily conserved and testis-enriched genes that are not required for male fertility in mice. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7704-7710.	3.3	134
70	Activin Î²C and Î²E Genes Are Not Essential for Mouse Liver Growth, Differentiation, and Regeneration. Molecular and Cellular Biology, 2000, 20, 6127-6137.	1.1	122
71	Non-invasive genetic diagnosis of male infertility using spermatozoal RNA: KLHL10mutations in oligozoospermic patients impair homodimerization. Human Molecular Genetics, 2006, 15, 3411-3419.	1.4	122
72	Biochemical Interactions of the Neuronal Pentraxins. Journal of Biological Chemistry, 2000, 275, 17786-17792.	1.6	121

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73	Follicle-Stimulating Hormone Increases Testicular Anti-MuÌˆllerian Hormone (AMH) Production through Sertoli Cell Proliferation and a Nonclassical Cyclic Adenosine 5â€²-Monophosphate-Mediated Activation of the AMH Gene. Molecular Endocrinology, 2003, 17, 550-561.	3.7	120
74	Intraovarian Activins Are Required for Female Fertility. Molecular Endocrinology, 2007, 21, 2458-2471.	3.7	120
75	Revelations of ovarian follicle biology from gene knockout mice. Molecular and Cellular Endocrinology, 2000, 163, 61-66.	1.6	117
76	Haploinsufficiency of kelch-like protein homolog 10 causes infertility in male mice. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7793-7798.	3.3	116
77	Activation of Neuronal Gene Expression by the JMJD3 Demethylase Is Required for Postnatal and Adult Brain Neurogenesis. Cell Reports, 2014, 8, 1290-1299.	2.9	116
78	<i>The Menstrual Cycle</i>. Annals of the New York Academy of Sciences, 2008, 1135, 10-18.	1.8	114
79	Conversion of midbodies into germ cell intercellular bridges. Developmental Biology, 2007, 305, 389-396.	0.9	112
80	Sperm proteins SOF1, TMEM95, and SPACA6 are required for spermâˆ’oocyte fusion in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11493-11502.	3.3	111
81	Mouse Oocytes Enable LH-Induced Maturation of the Cumulus-Oocyte Complex via Promoting EGF Receptor-Dependent Signaling. Molecular Endocrinology, 2010, 24, 1230-1239.	3.7	109
82	BMPR2 is required for postimplantation uterine function and pregnancy maintenance. Journal of Clinical Investigation, 2013, 123, 2539-2550.	3.9	107
83	Growth Differentiation Factor 9 Regulates Expression of the Bone Morphogenetic Protein Antagonist Gremlin. Journal of Biological Chemistry, 2004, 279, 32281-32286.	1.6	106
84	A Mutation in the Inner Mitochondrial Membrane Peptidase 2-Like Gene (Immp2l) Affects Mitochondrial Function and Impairs Fertility in Mice1. Biology of Reproduction, 2008, 78, 601-610.	1.2	102
85	The Testis-Enriched Histone Demethylase, KDM4D, Regulates Methylation of Histone H3 Lysine 9 During Spermatogenesis in the Mouse but Is Dispensable for Fertility1. Biology of Reproduction, 2011, 84, 1225-1234.	1.2	101
86	Absence of tektin 4 causes asthenozoospermia and subfertility in male mice. FASEB Journal, 2007, 21, 1013-1025.	0.2	100
87	Preservation of hypothalamic dopaminergic neurons in Parkinson's disease. Annals of Neurology, 1985, 18, 552-555.	2.8	98
88	Granulosa Cell-Expressed BMPR1A and BMPR1B Have Unique Functions in Regulating Fertility but Act Redundantly to Suppress Ovarian Tumor Development. Molecular Endocrinology, 2010, 24, 1251-1266.	3.7	97
89	The Long Pentraxin PTX3 Is Crucial for Tissue Inflammation after Intestinal Ischemia and Reperfusion in Mice. American Journal of Pathology, 2009, 174, 1309-1318.	1.9	96
90	The Art and Artifact of GDF9 Activity: Cumulus Expansion and the Cumulus Expansion-Enabling Factor1. Biology of Reproduction, 2005, 73, 582-585.	1.2	95

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91	Transforming Growth Factor Î² Receptor Type 1 Is Essential for Female Reproductive Tract Integrity and Function. PLoS Genetics, 2011, 7, e1002320.	1.5	94
92	Knockout of Pentraxin 3, a Downstream Target of Growth Differentiation Factor-9, Causes Female Subfertility. , 0, .		92
93	Analysis of MicroRNA Expression in the Prepubertal Testis. PLoS ONE, 2010, 5, e15317.	1.1	91
94	Analysis of Ovarian Gene Expression in Follicle-Stimulating Hormone Î² Knockout Mice*. Endocrinology, 2001, 142, 2742-2751.	1.4	90
95	Revisiting oocyte-somatic cell interactions: in search of novel intrafollicular predictors and regulators of oocyte developmental competence. Molecular Human Reproduction, 2008, 14, 673-678.	1.3	90
96	Estrogen Promotes the Development of Mouse Cumulus Cells in Coordination with Oocyte-Derived GDF9 and BMP15. Molecular Endocrinology, 2010, 24, 2303-2314.	3.7	90
97	Gene Targeting Approaches to Neuroendocrinology: Oxytocin, Maternal Behavior, and Affiliation. Hormones and Behavior, 1997, 31, 221-231.	1.0	89
98	Mouse TEX14 Is Required for Embryonic Germ Cell Intercellular Bridges but Not Female Fertility1. Biology of Reproduction, 2009, 80, 449-457.	1.2	89
99	Discovery of Novel MicroRNAs in Female Reproductive Tract Using Next Generation Sequencing. PLoS ONE, 2010, 5, e9637.	1.1	88
100	Mouse let-7 miRNA populations exhibit RNA editing that is constrained in the 5'-seed/ cleavage/anchor regions and stabilize predicted mmu-let-7a:mRNA duplexes. Genome Research, 2008, 18, 1571-1581.	2.4	87
101	Worldwide frequency of a common genetic variant of luteinizing hormone: an international collaborative research. Fertility and Sterility, 1997, 67, 998-1004.	0.5	85
102	Reproductive Defects in Î³-Glutamyl Transpeptidase-Deficient Mice¹. Endocrinology, 2000, 141, 4270-4277.	1.4	85
103	Connective Tissue Growth Factor Is Required for Normal Follicle Development and Ovulation. Molecular Endocrinology, 2011, 25, 1740-1759.	3.7	85
104	Overexpression of Human Chorionic Gonadotropin Causes Multiple Reproductive Defects in Transgenic Mice1. Biology of Reproduction, 2003, 69, 338-346.	1.2	83
105	Activin-Like Kinase 2 Functions in Peri-implantation Uterine Signaling in Mice and Humans. PLoS Genetics, 2013, 9, e1003863.	1.5	83
106	Zygote Arrest 1 (Zar1) Is an Evolutionarily Conserved Gene Expressed in Vertebrate Ovaries1. Biology of Reproduction, 2003, 69, 861-867.	1.2	82
107	In vitro differentiation of human embryonic stem cells into ovarian follicle-like cells. Nature Communications, 2017, 8, 15680.	5.8	82
108	Discovery of germ cellâ€“specific transcripts by expressed sequence tag database analysis. Fertility and Sterility, 2001, 76, 550-554.	0.5	81

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109	CRISPR/Cas9-mediated genome editing reveals 30 testis-enriched genes dispensable for male fertility in miceâ€. Biology of Reproduction, 2019, 101, 501-511.	1.2	81
110	SMAD3 Regulates Gonadal Tumorigenesis. Molecular Endocrinology, 2007, 21, 2472-2486.	3.7	76
111	Loss of inhibin alpha uncouples oocyte-granulosa cell dynamics and disrupts postnatal folliculogenesis. Developmental Biology, 2009, 334, 458-467.	0.9	74
112	TCTE1 is a conserved component of the dynein regulatory complex and is required for motility and metabolism in mouse spermatozoa. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5370-E5378.	3.3	74
113	Spermatozoa lacking Fertilization Influencing Membrane Protein (FIMP) fail to fuse with oocytes in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9393-9400.	3.3	74
114	TEX14 Interacts with CEP55 To Block Cell Abscission. Molecular and Cellular Biology, 2010, 30, 2280-2292.	1.1	73
115	Previously uncharacterized roles of platelet-activating factor acetylhydrolase 1b complex in mouse spermatogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7189-7194.	3.3	72
116	Interrelationship of Growth Differentiation Factor 9 and Inhibin in Early Folliculogenesis and Ovarian Tumorigenesis in Mice. Molecular Endocrinology, 2004, 18, 1509-1519.	3.7	72
117	Studying TGF-Î² superfamily signaling by knockouts and knockins. Molecular and Cellular Endocrinology, 2001, 180, 39-46.	1.6	71
118	Association of mutations in the zona pellucida binding protein 1 (ZPBP1) gene with abnormal sperm head morphology in infertile men. Molecular Human Reproduction, 2012, 18, 14-21.	1.3	70
119	RFPL4 interacts with oocyte proteins of the ubiquitin-proteasome degradation pathway. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 550-555.	3.3	69
120	Tektin 3 is required for progressive sperm motility in mice. Molecular Reproduction and Development, 2009, 76, 453-459.	1.0	69
121	The TGF-Î² Family in the Reproductive Tract. Cold Spring Harbor Perspectives in Biology, 2017, 9, a022251.	2.3	69
122	Inhibin and p27 Interact to Regulate Gonadal Tumorigenesis. Molecular Endocrinology, 2001, 15, 985-996.	3.7	68
123	Obox, a Family of Homeobox Genes Preferentially Expressed in Germ Cells. Genomics, 2002, 79, 711-717.	1.3	68
124	CRISPR/Cas9-derived models of ovarian high grade serous carcinoma targeting Brca1, Pten and Nf1, and correlation with platinum sensitivity. Scientific Reports, 2017, 7, 16827.	1.6	68
125	Recombination site selection by Tn3 resolvase: Topological tests of a tracking mechanism. Cell, 1985, 40, 147-158.	13.5	67
126	The Asparagine-linked Oligosaccharides of the Human Chorionic Gonadotropin Î² Subunit Facilitate Correct Disulfide Bond Pairing. Journal of Biological Chemistry, 1995, 270, 11851-11859.	1.6	67

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127	Genetic models for transforming growth factor Î² superfamily signaling in ovarian follicle development. Molecular and Cellular Endocrinology, 2004, 225, 83-91.	1.6	67
128	MRG15 Regulates Embryonic Development and Cell Proliferation. Molecular and Cellular Biology, 2005, 25, 2924-2937.	1.1	67
129	Stimulation of Activin Receptor II Signaling Pathways Inhibits Differentiation of Multiple Gastric Epithelial Lineages. Molecular Endocrinology, 1998, 12, 181-192.	3.7	63
130	Prevention of cachexia-like syndrome development and reduction of tumor progression in inhibin-deficient mice following administration of a chimeric activin receptor type II-murine Fc protein. Molecular Human Reproduction, 2007, 13, 675-683.	1.3	63
131	Activin Bioactivity Affects Germ Cell Differentiation in the Postnatal Mouse Testis In Vivo1. Biology of Reproduction, 2010, 82, 980-990.	1.2	63
132	NELL2-mediated lumicrine signaling through OVCH2 is required for male fertility. Science, 2020, 368, 1132-1135.	6.0	63
133	Mutagenesis and Gene Transfer Define Site-Specific Roles of the Gonadotropin Oligosaccharides. Biology of Reproduction, 1989, 40, 48-53.	1.2	61
134	As the world grows: contraception in the 21st century. Journal of Clinical Investigation, 2008, 118, 1330-1343.	3.9	61
135	Identification of an Inhibin Receptor in Gonadal Tumors from Inhibin Î±-Subunit Knockout Mice. Journal of Biological Chemistry, 1998, 273, 398-403.	1.6	60
136	MRG15 is required for pre-mRNA splicing and spermatogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5408-15.	3.3	60
137	Disruption of Î³-Glutamyl Leukotrienase Results in Disruption of Leukotriene D 4 Synthesis In Vivo and Attenuation of the Acute Inflammatory Response. Molecular and Cellular Biology, 2001, 21, 5389-5395.	1.1	58
138	Uterine activin receptor-like kinase 5 is crucial for blastocyst implantation and placental development. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5098-107.	3.3	57
139	A Mild, DNA-Compatible Nitro Reduction Using B₂(OH)₄. Organic Letters, 2019, 21, 2194-2199.	2.4	56
140	Follistatin is critical for mouse uterine receptivity and decidualization. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4772-E4781.	3.3	53
141	Cyclin D2 and p27 Are Tissue-Specific Regulators of Tumorigenesis in Inhibin Î± Knockout Mice. Molecular Endocrinology, 2003, 17, 2053-2069.	3.7	52
142	Fibroblast Growth Factors and Epidermal Growth Factor Cooperate with Oocyte-Derived Members of the TGFbeta Superfamily to Regulate Spry2 mRNA Levels in Mouse Cumulus Cells1. Biology of Reproduction, 2009, 81, 833-841.	1.2	52
143	Deficiency of Growth Differentiation Factor 3 Protects against Diet-Induced Obesity by Selectively Acting on White Adipose. Molecular Endocrinology, 2009, 23, 113-123.	3.7	52
144	Activins Are Critical Modulators of Growth and Survival. Molecular Endocrinology, 2003, 17, 2404-2417.	3.7	51

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145	Uterine ALK3 is essential during the window of implantation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E387-95.	3.3	51
146	Stable expression and characterization of N-terminal tagged recombinant human bone morphogenetic protein 15. Molecular Human Reproduction, 2009, 15, 779-788.	1.3	49
147	Mendelian genetics of male infertility. Annals of the New York Academy of Sciences, 2010, 1214, E1-E17.	1.8	48
148	Identification of multiple male reproductive tract-specific proteins that regulate sperm migration through the oviduct in mice. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18498-18506.	3.3	48
149	Quantitative Comparison of Enrichment from DNA-Encoded Chemical Library Selections. ACS Combinatorial Science, 2019, 21, 75-82.	3.8	48
150	BMP7 Induces Uterine Receptivity and Blastocyst Attachment. Endocrinology, 2017, 158, 979-992.	1.4	46
151	Structural characterization of an activin class ternary receptor complex reveals a third paradigm for receptor specificity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15505-15513.	3.3	46
152	Uterine double-conditional inactivation of<i>Smad2</i>and<i>Smad3</i>in mice causes endometrial dysregulation, infertility, and uterine cancer. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3873-3882.	3.3	46
153	Altered excitationâ€contraction coupling with skeletal muscle specific FKBP12 deficiency. FASEB Journal, 2004, 18, 1597-1599.	0.2	45
154	Genetics of Mammalian Reproduction: Modeling the End of the Germline. Annual Review of Physiology, 2012, 74, 503-528.	5.6	42
155	Recurrent <i>BCAM-AKT2</i> fusion gene leads to a constitutively activated AKT2 fusion kinase in high-grade serous ovarian carcinoma. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1272-7.	3.3	42
156	Systematic Identification of Druggable Epithelialâ€"Stromal Crosstalk Signaling Networks in Ovarian Cancer. Journal of the National Cancer Institute, 2019, 111, 272-282.	3.0	42
157	Discovery and characterization of bromodomain 2â€"specific inhibitors of BRDT. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	42
158	Functional analysis of mammalian members of the transforming growth factor-Î² superfamily. Trends in Endocrinology and Metabolism, 1995, 6, 120-127.	3.1	41
159	Identification of Zfp393, a germ cell-specific gene encoding a novel zinc finger protein. Mechanisms of Development, 2002, 118, 233-239.	1.7	41
160	CDKN2D-WDFY2 Is a Cancer-Specific Fusion Gene Recurrent in High-Grade Serous Ovarian Carcinoma. PLoS Genetics, 2014, 10, e1004216.	1.5	41
161	Inhibitory Phosphorylation of Separase Is Essential for Genome Stability and Viability of Murine Embryonic Germ Cells. PLoS Biology, 2008, 6, e15.	2.6	40
162	Discovery of potent thrombin inhibitors from a protease-focused DNA-encoded chemical library. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16782-16789.	3.3	40

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163	H3K27 Demethylase, JMJD3, Regulates Fragmentation of Spermatogonial Cysts. PLoS ONE, 2013, 8, e72689.	1.1	40
164	Retinoblastoma Protein Plays Multiple Essential Roles in the Terminal Differentiation of Sertoli Cells. Molecular Endocrinology, 2009, 23, 1900-1913.	3.7	39
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